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**LASER BEAM OR LIGHT AMPLIFYING GLASS COMPOSITION**

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Applicant: NIPPON TELEGRAPH &amp; TELEPHONE

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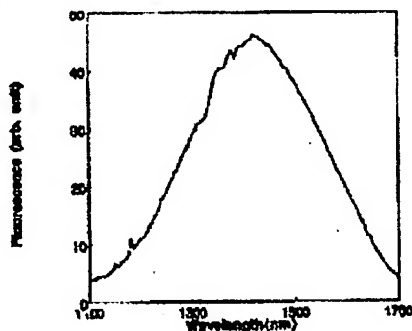
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## Abstract of JP6298058

**PURPOSE:** To provide a glass composition which is applicable to a laser oscillator or an optical amplifier having a laser oscillation function or an optical amplification function over a very wide wavelength range of light or a laser beam whose center wavelength is important to an optical communications wavelength range. **CONSTITUTION:** The composition contains 5 to 60mol% of  $Al_2O_3$  and Cr. When Cr ions are contained in glass whose main component is aluminum oxide, fluorescence is intense in a wide wavelength band of 1.1 to 1.7  $\mu m$ . Light emission spectrum is shown in the figure when glass of certain composition is excited by a YAG laser of 1.06  $\mu m$ .



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